



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/628,805	07/28/2000	Michael L. Asmussen	5220.00	3499	
56015	7590 09/27/2005		EXAM	EXAMINER	
MOSER, PATTERSON & SHERIDAN, LLP/ SEDNA PATENT SERVICES, LLC 595 SHREWSBURY AVENUE SUITE 100 SHREWSBURY, NJ 07702			LONSBERRY	LONSBERRY, HUNTER B	
			ART UNIT	PAPER NUMBER	
			2611		
			DATE MAILED: 09/27/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/628,805	ASMUSSEN, MICHAEL L.				
Office Action Summary	Examiner	Art Unit				
	Hunter B. Lonsberry	2611				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 Ju	lv 2005					
·= · · _=	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-5,7,8,10,12-47,51,53-58,60 and 62-78 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7,8,10,12-47,51,53-58, 60 and 62-78</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
Application Papers	·					
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

Art Unit: 2611

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 7/19/05 have been fully considered but they are not persuasive.

Applicant argues that the combination of Alexander and Rangan fails to teach applicants invention as a whole, in particular that Alexander fails to disclose sending group assignment rules to a terminal and a ranking scheme based on percentages of total viewers. (amendment page 20)

Regarding applicants argument, support in Alexander for sending group assignment rules can be found on column 29, lines 22-36, column 32, lines 42-54, column 34, lines 17-25. In particular, Alexander discloses that customized messages can be uploaded by a zip code to a user's STB, the EPG recognizes the user's zip code and then assigns the proper message to be displayed.

Support for "Ranking one or more of the programs based on target categories and a first percentage of total viewers in one or more groups of viewers can be found at column 34, lines 31-41. Alexander discloses that a group of users can select a sports theme (first percentage) more frequently than any other theme during a prescribed period of time, which then weights sports programming higher than other programming. The history of use is utilized to determine which advertisements are shown, with the weighting applied to determine the proper advertisement.

Art Unit: 2611

The examiner has cited Alexander for locally targeting and ranking, not Rangan.

Rangan is cited to teach providing a retrieval plan and providing video program to the terminal and determining the placement of a virtual advertisement spot in a video program.

Applicant argues there is no motivation to combine Alexander and Rangan and that the combination fails to disclose locally targeting virtual objects within a terminal, sending group assignment rules from a remote location to the terminal and assigning objects based on the percentages of total viewers (amendment pages 20-21).

Regarding applicant's argument, Alexander teaches the use of a retrieval plan (column 33, lines 44-65), which is utilize to place advertisements in a virtual advertising spot 12/16 in figure 1. Alexander fails to disclose providing a retrieval plan and video program to the terminal and determining the placement of a virtual advertisement spot in a video program. Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program. There is motivation to combine as both references are directed to the same problem that is placing advertising content on screen to a viewer.

The references do not teach away from one another as both references are directed to the same problem, that is placing advertising content on screen to a viewer. In particular Alexander teaches the use of video advertisements (column 34, lines 10-35), which are displayed within a program guide, and the use of retrieval plan which dictates where advertisements are to be placed. Rangan discloses that advertisements may be placed anywhere within a video program according to data received at the STB. It would be desirable, to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

The examiner has addressed applicants arguments regarding sending group assignment rules from a remote location to the terminal and assigning objects based on the percentages of total viewers above.

Alexander teaches locally targeting virtual objects within a terminal at column 32, lines 24-34.

Art Unit: 2611

11=:4: 0044

Applicant argues that there is no motivation to combine Alexander, Rangan and Godwin (Amendment page 22).

Regarding applicant's argument, Alexander teaches the use of a retrieval plan (column 33, lines 44-65), which is utilize to place advertisements in a virtual advertising spot 12/16 in figure 1. Alexander fails to disclose providing a retrieval plan and video program to the terminal and determining the placement of a virtual advertisement spot in a video program. Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program. Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program. There is motivation to combine as both references are directed to the same problem that is placing advertising content on screen to a viewer.

The combination of Alexander and Rangan is silent regarding the use of a GPS receiver to determine a geographical location and to store that data.

Application/Control Number: 09/628,805 Page 6

Art Unit: 2611

Godwin discloses am EPG which is run on a set top box110, a GPS receiver 524 is utilized to determine the position of the subscriber receiver, this information is passed onto a controller 530 and EPG data module 532, which determines which EPG information should be displayed to a user without requiring any user input (column 7, lines 30-51, figure 8b). Therefore it would have been obvious to one skilled in the art at the time of invention to modify the combination of Alexander and Rangan to utilize the GPS receiver of Godwin to determine which programs and channels should be made available to a user, for the advantage of presenting programming which would be of interest to a user and is relevant to a subscribers location.

There is motivation to combine the references as the combination of Alexander and Rangan discloses the use of zip codes (geographic information) in order to determine which programming and what advertisements to display. Godwin discloses an EPG, which utilizes a GPS receiver to determine geographic information, which is in turn utilized to determine which programming, should be displayed. It would have been obvious to one skilled in the art at the time of invention to modify Alexander and Rangan to include the features of Godwin, to make sure the proper programming is displayed to the user, and enable the configuration of the EPG without any user input.

Applicant's failure to traverse the Official Notice(s) taken in the previous action are taken as admission of Prior Art.

Application/Control Number: 09/628,805 Page 7

Art Unit: 2611

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5, 7-8, 10, 12-32, 34-47, 51, 53-58, 60, 62, and 64-78 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 6,177,931 B1 to Alexander in view of U.S. Patent 6,493,872 to Rangan.

Regarding claim 1, Alexander discloses a method for targeting virtual advertisements within an electronic program guide in figure 1 comprising

Assigning at least one virtual advertisement spot to a program 12

Assigning a plurality virtual objects to a virtual advertisement spot 12/16 (column 27, lines 3-15)

Generating group assignment rules (column 30, lines 29-44),

Generating a retrieval plan, wherein the retrieval plan instructs one or more of the terminals to select one or more virtual objects for placement in a virtual advertisement spot 14/16 (column 33, lines 44-65),

Providing the retrieval plan to the terminal (column 29, lines 14-30, column 32, lines 22-55) periodically (column 29, lines 22-36, column 32, lines 42-54, column 34, lines 17-25).

Art Unit: 2611

Alexander fails to disclose periodically providing a retrieval plan and providing video program to the terminal and determining the placement of a virtual advertisement spot in a video program.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted periodically (data may be sent within the VBI, thus transmitted during the vertical refresh) along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 2, Alexander discloses defining a target category designating a group based on common viewer characteristics to a target category (column 32, lines 39-47).

Regarding claim 3, Alexander discloses assigning a terminal to a group by,

Art Unit: 2611

storing the rules at the terminal (column 29, lines 14-30)

Determining one or more group assignments based on the group assignment rules and data related to the terminal (column 32, lines 9-13, 39-47, column 34, lines 17-24).

Regarding claim 4, Alexander discloses that group assignments may be based video programs watched information and that this information is updated to reflect changes (column 29, lines 31-68).

Regarding claim 5, Alexander discloses a retrieval plan comprising

Designating a group mask for one or more the groups (column 32, lines 45-48)

Assigning one or more of the groups to one of the virtual objects wherein the group mask indicates which terminals display a virtual object.(column 32, lines 42-48).

Regarding claim 7, Alexander discloses a method for locally targeting virtual advertisements within an electronic program guide in figure 1 comprising:

Categories of virtual objects and video programs are created (column 34, lines 15-20, column 33, lines 57-65),

Within one or more of the categories, groups are defined (column 34, lines 56-column 35, line 2),

Art Unit: 2611

Generating group assignment rules based on common viewer characteristics (column 29, lines 31-55, column 30, lines 17-37),

Providing and storing the group assignment rules to the terminals (column 32, lines 27-34)

providing at least one virtual advertisement spot to a program 12 providing one or more virtual objects to a virtual advertisement spot 12/16 providing at least one alternate virtual object (column 33, lines 36-43)

Generating a retrieval plan, wherein the retrieval plan instructs one or more of the terminals to select one or more virtual objects including alternate objects at the terminal (column 33, line 44-column 34, line 9).

Alexander fails to disclose providing to one ore more of the terminals a video program with one or more virtual object locations.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of

Art Unit: 2611

Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 8, Alexander discloses that the program 12 is a TV program (figure 1).

Rangan discloses that the video program is a TV program (column 6, lines 45-50).

Regarding claim 10, Alexander discloses that the virtual object positions may be fixed within a frame (column 22, lines 34-47).

Rangan discloses that the object location is fixed in position across frames of a video program (column 6, lines 6-16).

Regarding claim 11, Rangan discloses that an object location may move spatially in the video program in time (figures 2,3,5, column 6, lines 12-13, column 7, lines 51-column 8, line 33).

Regarding claim 12, Alexander discloses that the virtual channel ads may be interactive (column 26, lines 4-29).

Regarding claim 13, Alexander discloses that programs are broadcast to the terminals and that,

Art Unit: 2611

Utilizing the rules to assign a terminal to a group (column 32, lines 35-54),

Comparing the retrieval plan to the group assignments to determine which virtual object to display (column 32, lines 35-54).

Regarding claim 14, Alexander discloses,

Assigning the virtual objects to one or more virtual object locations (column 34, lines 58-column 35, line 2, Figure 1, locations 14/16),

Assigning alternate objects (column 34, lines 58-63, column 33, lines 38-43)

Creating a group mask assignment to compare the retrieval plan to the terminal group assignment (column 32, lines 39-54, column 33, lines 36-65).

Regarding claim 15, Alexander discloses,

Ranking one or more of the video programs based on target categories and a first percentage of total viewers in one or more groups of viewers (column 34, lines 36-41),

Ranking the targeted virtual objects... (column 34, lines 36-43)

Determining for one of the programs... (column 34, lines 58-63)

Assigning one or more objects as default objects (column 34, lines 58-63)

Assigning alternate objects (column 34, lines 58-63).

Art Unit: 2611

Regarding claims 16-18, Alexander discloses groups include profiling information such as demographics, viewer entered information, and video programs watched (column 28, lines 13-21, column 29, lines 43-44, column 30, lines 29-38).

Regarding claim 19, Alexander discloses that the profile includes ads watched information (column 27, lines 45-47).

Regarding claim 20, Alexander discloses that the virtual channel ads may be interactive (column 26, lines 4-29) and that the profile includes ads watched information (column 27, lines 45-47).

Regarding claim 21, Alexander discloses the terminal is a set top box (column 3, lines 3-7).

Regarding claim 22, Alexander discloses that the display 10 may be a PC monitor (column 3, lines 3-7) and that the terminal may have an Internet connection (column 33, lines 44-47).

Rangan discloses that system 115 (figure 12), may be integrated with a WEBTV or PC (column 21, lines 27-30).

Art Unit: 2611

Regarding claim 23, Alexander discloses that the display 10 may be a generated by a conventional STB (column 3, lines 3-7) and that the EPG may know which satellite services a user is subscribed too (column 28, lines 12-16).

Rangan discloses in figure 12, that system 115 may be coupled to a satellite input (column 21, lines 31-43).

Regarding claim 24, Alexander discloses that the profile includes information regarding which ads a user has watched within the EPG (column 27, lines 45-47) and that profile information may be processed at the headend (column 29, lines 14-21), history of programs watched is over written by deleting the oldest data stored in memory (column 34, lines 49-51).

The combination of Alexander and Rangan fails to disclose deleting the identification of the ad watched from the memory within the terminal.

The examiner takes official notice that deleting information after it has been transmitted is notoriously well known in the art. Deleting information frees up limited memory within a device and enables other information to be stored in its place.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the combination of Alexander and Rangan to delete an identification from memory, thus freeing up memory for use by other programs and records within the terminal.

virtual object location 14 (Figure 1).

Art Unit: 2611

Regarding claims 25-26, Alexander discloses, a method of targeting virtual objects to terminals comprising:

Creating a package of targeted virtual objects and providing the ads to one or more of the terminals (column, lines 44-50),

Generating group assignment rules and providing it to one or more of the terminals, to assign a terminal to a group (column 32, lines 35-51),

Generating and providing retrieval plan to the terminal (column 32, lines 41-45)

Providing a program 10 to the terminals, the program including at least one

Alexander fails to disclose providing a video program, which includes at least one virtual object location.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of

Art Unit: 2611

Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 27, Alexander discloses retrieving one of the targeted virtual objects for display in a virtual object location 14 (column 33, lines 44-50).

Rangan discloses that ads are placed in virtual object locations (column 6, lines 6-16).

Regarding claim 28, Alexander discloses comparing a group assignment matrix to a retrieval plan and then selecting the appropriate targeted advertisement (column 34, lines 10-23).

Regarding claims 29 and 30, Alexander discloses that a virtual object may be an EPG link to an Internet website (column 34, lines 10-15).

Regarding claim 31, Alexander discloses that group assignments are preformed by analyzing individual and group data (column 31, lines 48-52, column 32, lines 35-47).

Regarding claim 32, Alexander discloses that group assignments may be based programs watched information and that this information is updated to reflect changes (column 29, lines 31-68).

Art Unit: 2611

Regarding claim 34, Alexander discloses a method for assigning targeted virtual objects in a program comprising,

Identifying a program to carry a targeted virtual object (column 33, lines 26-36),

Assigning the virtual objects to target categories (column 34, lines 16-18),

Dividing the categories into groups of viewers (column 34, lines 16-18)

Ranking one or more of the programs based on target categories and a first percentage of total viewers in one or more groups of viewers (column 34, lines 31-41),

Ranking the targeted virtual objects... (column 34, lines 36-43)

Determining for one of the programs... (column 34, lines 58-63)

Assigning one or more objects as default objects (column 34, lines 58-63)

Assigning alternate objects (column 34, lines 58-63)

Assigning the objects to the virtual objects locations (column 34, lines 58-column 35, line 2).

Rangan fails to disclose identifying one or more video programs to carry the targeted virtual objects.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column

13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claims 35, Alexander discloses the percentages are based on viewer demographics and location (column 28, lines 13-21, column 29, lines 43-44, column 30, lines 29-38, column 32, lines 7-10).

Regarding claim 36, see claim 13.

Regarding claim 37, Alexander discloses that the retrieval plan and group assignments may be updated and sent back to the terminals (column 29, lines 14-30, column 33, lines 9-15, column 34, lines 49-55).

Regarding claim 38-39, Alexander discloses that the targeted objects, retrieval plan and group assignment matrix may be transmitted over the Internet (column 29, lines 31-37, column 33, lines 44-56).

Art Unit: 2611

Regarding claim 40, Alexander discloses that the objects may be transmitted from a cable network (headend, column 32, lines 45-51).

Regarding claim 41, Alexander discloses that the advertisements may be transmitted with the program (column 32, lines 55-56).

Regarding claim 42, Alexander discloses that the advertisements may be transmitted separately from the program (column 33, lines 44-47).

Regarding claim 43, Alexander discloses a method for locally targeting virtual objects to subscribers comprising,

Gathering information related to a plurality of the subscribers (column 29, lines 14-21),

Analyzing the information to create a profile of one of the plurality of subscribers (column 29, lines 14-32),

Correlating the profile with categories of virtual objects (column 29, lines 37-50, column 34, lines 16-23),

Selecting from the correlated virtual object for placement in a video program (column 34, lines 16-23, column 33, lines 36-42) based on an optimum placement determination (column22, lines 34-56, tile 52 may be an ad slot which either scrolls off screen as the user browses or may remain in the screen at all times as the up and down arrow keys are pressed, thus maintaining an optimal position).

Art Unit: 2611

Alexander fails to disclose displaying a virtual object in a video program.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33, determined to be in an optimal position by the author), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 44, Alexander discloses gathering information related to the subscribers, including programs watched data (column 29, lines 1-68).

Regarding claim 45, Alexander discloses in figure 1, virtual objects locations in which advertisements are display in windows 14/16.

Art Unit: 2611

Regarding claims 46-47, Alexander discloses that there may be multiple locations for virtual objects (figure 1, positions 14/16), and that ads may be delivered along with a TV transmission (column 32, lines 55-60).

Rangan discloses the use of an annotation stream that identifies the location to place a virtual object within a video program (column 6, lines 6-16, column 11, lines 35-column 12, line 64).

Regarding claim 51, Alexander discloses a routine on a terminal device, which targets virtual objects to a viewer and group of viewers,

A group definition routine, which determines target categories of viewer characteristics (column 29, lines 31-55, column 30, lines 17-37),

A group assignment routine (column 32, lines 35-54)

A virtual object location routine (column 22, lines 1-9),

A retrieval plan generator for retrieving objects based on group number (column 34, lines 17-25)

A delivery processor that sends group assignment rules to the individual viewer terminals (column 32, lines 24-60, a processor in the headend transmits the ads by zipcode or watermark so that users in the proper region view the proper targeted ad).

Alexander fails to disclose determining an available virtual object location in a video program.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be

Art Unit: 2611

associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream, which identifies the location to place a virtual object) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 53, Alexander discloses a method for targeting virtual objects to locations in a program,

Identifying advertisements for insertion into a location (column 34, lines 17-25), Generating a profile (column 29, lines 22-55)

and providing an object at least partially based on the individual user profile (column 32, lines 39-54) and group assignment rules, the rules being provided by a remote location to the local viewer terminal (column 32, lines 24-60, a processor in the headend transmits the ads by zipcode or watermark so that users in the proper region view the proper targeted ad).

Alexander fails to disclose inserting virtual objects in a video program.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 54, Alexander discloses a method for targeting advertisements, Identifying a terminal based on viewing characteristics of individual terminals information (column 30, lines 1-37, column 32, liens 24-34)

Identifying virtual object locations... (column 22, lines 1-9),

Targeting virtual objects for insertion... (column 32, lines 39-47).

Alexander fails to disclose identifying a virtual object location in a video program

Rangan discloses a method for adding text overlays, graphic icons and logos for
advertisement over a video data stream (column 6, lines 38-50), advertisements may be
associated with a tracked object or may be set to track along with an object or appear in

Art Unit: 2611

a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 55, Alexander discloses displaying multiple ads simultaneously, (figure 1, locations 14/16, 52) at the identified terminals (column 32, lines 35-54).

Regarding claims 56 and 58, Alexander discloses that a virtual object may be an EPG link to an Internet website which then displays the information (column 34, lines 10-15).

Regarding claim 57, Alexander discloses that the content may be a video clip related to the product being advertised (column 20, lines 4-12).

The combination of Alexander and Rangan does not disclose the location of the video clip.

Art Unit: 2611

The examiner takes official notice that transmitting video from a operations center is notoriously well known in the art. Transmitting from an operations center on the same network allows for the video to be transmitted with a high quality of service, as the data is located on the same network as a user.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the combination of Alexander and Rangan to store a video clip at an operations center, thus allowing for a high fidelity transmission through a local network provider.

Regarding claim 59, Alexander discloses a terminal that targets virtual objects for display to a viewer comprising,

A receiver that receives group assignment rules (column 3, lines 1-7, column 32, lines 35-54, column 34, lines 10-25) virtual objects, and a virtual object retrieval plan,

A memory that stores the group assignment rules (column 32, lines 35-60) and virtual object retrieval plan (column 34, lines 12-25),

A processor (column 5, lines 21-37) that executes a group assignment plan using the group assignment rules and data related to the terminals based on common viewer characteristics (column 32, lines 35-54, zip codes are common characteristics)

A virtual object location routine (column 22, lines 1-9), which assigns virtual objects based on a comparison of the retrieval plan and group assignments (column 32, lines 24-60, a processor in the headend transmits the ads by zipcode or watermark so that users in the proper region view the proper targeted ad ,column 34, lines 17-25).

Alexander fails to disclose a receiver that receives video programs containing virtual object locations.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50) which is received at a user receiver (figure 12, column 21, lines 18-25), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 60, Alexander discloses the rules are stored in memory (column 29, lines 14-27).

Regarding claim 62, Alexander discloses that there is internally generated information (column 30, lines 29-37), and externally provided information (column 29, lines 14-29).

Art Unit: 2611

Regarding claim 64, Alexander discloses the internal information includes programs watched (column 34, lines 49-51) and virtual objects displayed (column 27, lines 45-47).

Regarding claims 65 and 67, Alexander discloses that the user profile is periodically updated to include new information since the last analysis (column 29, lines 22-27).

Alexander and Rangan are silent regarding adding revised rules to further profile a user.

The examiner takes official notice that adding revised profiling rules to further profile a user is notoriously well known in the art. Adding new rules allows a profiling system to take into account new criteria and new types of programming.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the combination of Alexander and Rangan to include revised rules to redefine a group assignment, in order to take into account new criteria and more accurately profile a user.

Regarding claim 66, Alexander discloses that the user profile is periodically updated (column 29, lines 22-27) and may incorporate other information regarding a user (column 30, lines 18-37).

Art Unit: 2611

Regarding claim 68, Alexander discloses a method of assigning virtual objects to a program comprising,

Identifying a program to carry the virtual object (column 20, lines 28-49)

Assigning the virtual objects to target categories and groups, (column 34, lines 16-19)

Generating virtual object location group percentage breakdowns... (column 30, lines 38-44)

Creating virtual object rankings.... (column 30, lines 38-44)

Determining and assigning virtual objects.... (column 34, lines 10-25).

Alexander fails to disclose a video program, which carries a virtual object.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding clam 69, Alexander discloses a method of targeting virtual objects to terminals comprising,

Identifying virtual objects and providing them to a terminal (column 34, lines 10-25)

Generating group assignment rules and providing it to one or more of the terminals (column 32, lines 35-51),

Generating and storing a retrieval plan at the terminal (column 34, lines 17-23)

Providing a program which includes a virtual object location (column 19, lines 50-61) and the retrieval plan designates which objects to retrieve and display (column 34, lines 10-25).

Alexander fails to disclose providing a video program with a virtual object location.

Rangan discloses a method for adding text overlays, graphic icons and logos for advertisement over a video data stream (column 6, lines 38-50), advertisements may be associated with a tracked object or may be set to track along with an object or appear in a fixed position anywhere on a screen (column 6, lines 6-16, column 17, lines 15-33), a retrieval plan 55 (annotation stream) is transmitted along with a video stream 53 to a user device which instructs the device where to position the advertising data (column 13, line 18-column 14, line 20), thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Art Unit: 2611

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the video programs and retrieval plans of Rangan, thus enabling advertising content to be placed anywhere on a screen while a user watches a program.

Regarding claim 70, see claim 3.

Regarding claims 71-72, Alexander discloses that the EPG may utilizes profiling rules (column 29, lines 31-33), and that during set up procedures, a user is asked to input their zip code and identify their cable subscription service (column 32, lines 7-21), this information is utilized to assign a user into a group for advertisement selections (column 32, lines 35-45).

Regarding claim 73 and 74, Alexander discloses the retrieval of a virtual object for display (column 34, lines 10-25), a comparison may be preformed to determine which object to display (column 34, line 56-column 35, line 2).

Regarding claim 75, Alexander discloses that a virtual object may be an EPG link to an Internet website (column 34, lines 10-15).

Regarding claim 76-78, Alexander discloses that group assignment rules are transmitted via a cable network (column 32, lines 7-21), the virtual objects may be

Art Unit: 2611

transmitted from a cable network (headend, column 32, lines 45-51) and that the retrieval plan is transmitted via a cable network (column 34, lines 10-23),

3. Claims 33 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,177,931 to Alexander in view of U.S. Patent 6,493,872 to Rangan in further view of U.S. Patent 6,741,834 to Godwin.

Regarding claim 33, Alexander discloses the use of a STB to display an EPG (column 3, lines 2-7).

Alexander is silent regarding the use of a GPS receiver to determine a geographical location and to store that data.

Godwin discloses am EPG which is run on a set top box110, a GPS receiver 524 is utilized to determine the position of the subscriber receiver, this information is passed onto a controller 530 and EPG data module 532, which determines which EPG information should be displayed to a user without requiring any user input (column 7, lines 30-51, figure 8b).

Therefore it would have been obvious to one skilled in the art at the time of invention to modify the combination of Alexander and Rangan to utilize the GPS receiver of Godwin to determine which programs and channels should be made available to a user, for the advantage of presenting programming which would be of interest to a user and is relevant to a subscribers location.

Art Unit: 2611

Regarding claim 63, Alexander discloses the use of a STB to display an EPG (column 3, lines 2-7).

Alexander is silent regarding the use of a GPS receiver to determine a geographical location, area of influence, postal code information and to store that data in the terminal.

Godwin discloses am EPG which is run on a set top box110, a GPS receiver 524 is utilized to determine the position of the subscriber receiver, this information is passed onto a controller 530 and EPG data module 532, which determines which EPG information should be displayed to a user without requiring any user input (column 7, lines 30-51, figure 8b).

Therefore it would have been obvious to one skilled in the art at the time of invention to modify Alexander to utilize the GPS receiver of Godwin to determine which programs and channels should be made available to a user, thus presenting programming which would be of interest to a user and is relevant to a subscribers location.

Godwin is silent regarding the use of a processor to determine the postal code information based off of a location.

The examiner takes official notice that the use of a lookup table to determine postal code information is notoriously well known in the art. For example http://www.chilidog.com/zip/zipnotes.html discloses the use of a zip code database, which includes latitude and longitudes corresponding to a zip code.

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the combination of Alexander and Godwin to utilize a postal code lookup, thus enabling the receipt of customized information without requiring a user to enter any additional information.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hunter B. Lonsberry whose telephone number is 571-272-7298. The examiner can normally be reached on Monday-Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on 571-272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2611

HBL

CHRISTOPHER GRANT SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600